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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/975,995	10/15/2001	Vernon T. Brady	017750-732	9493	
7590 01/11/2008 Frederick G. Michaud, Jr. BURNS, DOANE, SWECKER & MATHIS, L.L.P.			EXAM	EXAMINER	
			BRINEY III, WALTER F		
P.O. Box 1404	P.O. Box 1404 Alexandria, VA 22313-1404			PAPER NUMBER	
Alexandra, VA	22313-1404		2615		
			MAIL DATE	DELIVERY MODE	
			01/11/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•	Application No.	Applicant(s)			
	09/975,995	BRADY ET AL.			
Office Action Summary	Examiner	Art Unit			
	Walter F. Briney III	2615			
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNICA R 1.136(a). In no event, however, may a rep triod will apply and will expire SIX (6) MONTH tatute, cause the application to become ABA	ATION.  lly be timely filed  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 2	4 October 2007.				
3) Since this application is in condition for allo	wance except for formal matter	rs, prosecution as to the merits is			
closed in accordance with the practice und	er Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4)	drawn from consideration. 6-83,86-94 and 97-102 is/are re	•			
Application Papers					
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the	accepted or b) objected to by the drawing(s) be held in abeyance rection is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents.</li> <li>2. Certified copies of the priority documents.</li> <li>3. Copies of the certified copies of the papplication from the International Bure * See the attached detailed Office action for a</li> </ul>	ents have been received. ents have been received in Apportiority documents have been re reau (PCT Rule 17.2(a)).	olication No eceived in this National Stage			
Attachment(s)	n□	www.co. (DTO 412)			
1)  Notice of References Cited (PTO-892) 2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/	nmary (PTO-413) Mail Date rmal Patent Application			

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#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 24 October 2007 has been entered.

## **Double Patenting**

The terminal disclaimer filed 24 October 2007 has been accepted. Accordingly, the nonstatutory double patenting rejections have been withdrawn.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claim 1-2, 11-12, 19, 25-26, 29, 36-37, 40, 76-83, 86-88, 90-94 and 97-102 are rejected 1. under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,619,503 (filed 11 January 1994) (herein *Dent*) in view of US Patent 5,793,253 (filed 28 April 1995) (herein Kumar) and further in view of US Patent 4,459,651 (filed 1 July 1982) (herein Fenter).

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Claims 1-2, 11-12, 19, 25-26, 29, 36-37, 40, 76-83, 86-88, 90-94 and 97-102 are rejected for the same reasons presented in the Final Office Action filed 30 May 2007, incorporated herein by reference. Therefore, *Dent* in view of *Kumar* and further in view of *Fenter* makes obvious all limitations of the claims.

Claim 89 is rejected under 35 U.S.C. 103(a) as being unpatentable over *Dent* in view of *Kumar* in view of *Fenter* and further in view of US Patent 5,911,117 (filed 14 October 1997) (herein *Bhame*).

Claim 89 is rejected for the same reasons presented in the Final Office Action filed 30 May 2007, incorporated herein by reference. Therefore, *Dent* in view of *Kumar* in view of *Fenter* and further in view of *Bhame* makes obvious all limitations of the claim.

## Response to Arguments

Applicant's arguments filed 24 October 2007 have been fully considered but they are not persuasive.

Regarding claim 1 applicant alleges that *Dent* does not disclose means for transmitting information using a first polarization and receiving information using a second polarization to thereby isolate information transmission from information reception in full duplex communication. Arguments at 3-4 (24 October 2007). Applicant rests this allegation on the proposition that *Dent* transmits signals using two polarizations. *Dent* at col. 12 ll. 32-43, 55-67. As noted in an earlier Office Action, *Dent* not only transmits signals using two polarizations, but also receives signals using the same two polarizations. Non-Final Rejection at 9-10 (14

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December 2006). Isolation occurs between transmitted information and received information, for example signals transmitted using the first polarization are isolated from the signals received using the second polarization. *Id.* The examiner concedes that information transmitted using the first polarization and information received using the first polarization are not isolated via orthogonal polarizations, however, they are isolated in frequency. Id. Regarding the claim language, since *Dent* transmits using two polarizations and receives using the same two polarizations, one cannot argue that the antenna arrangement of *Dent* does not provide information transmission using a first polarization and information reception using a second polarization. The only question is whether the remainder of the claim excludes from its ambit the transmission of information using the second polarization and reception of information using the first polarization. The only relevant language, "to thereby isolate information transmission from information reception in full duplex communication," does not affirmatively answer the question. Instead, the language merely explicates the effect of providing transmission using a first polarization and providing reception using a second polarization: the information transmitted with the first polarization is isolated from the information received with the second polarization. The examiner showed this isolation effect to be true for the *Dent* arrangement. *Id.* Notwithstanding the foregoing claim construction, because the *means for* information transmission/reception is a structural element, apparently invoking construction under 35 U.S.C. § 112, ¶ 6, the means for need only be rejected by a prior art element that has the same physical structure. Applicant's specification defines the information transmission/reception means as a dual polarization antenna. Specification at 2 (15 October 2001). Dent likewise discloses a dual polarization antenna. Dent at col. 12 11. 32-34. Because Dent discloses the same type of antenna

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as applicant designates as an information transmission/reception means, *Dent* discloses the claimed information transmission/reception means.

Applicant alleges that *Fenter* does not disclose a DC voltage regulator for providing at least two DC output voltages and inhibiting a first of said two DC voltage outputs when a second of said two DC voltage outputs is above a predetermined threshold. Arguments at 5 (24 October 2007). Applicant cites col. 2 ll. 1-16 of *Fenter* and notes that the cite does not support the features applicant alleges *Fenter* does not disclose. Examiner agrees, however, the cited portion of *Fenter* was not relied upon for the claim limitations at issue. Instead, the examiner cited to both col. 8 ll. 52-66 & fig.2 of *Fenter* which examiner showed to teach the claim limitations at issue. Applicant further airs at length about both the instant invention and *Fenter* but only appears to draw the distinction that *Fenter* has an AC input while the instant invention has a DC input. However, node OP+ of *Fenter* is a converted DC input to the remainder of the circuit elements. *Fenter* at fig.2. OP+ is regulated by the remainder of the circuit to generate a stable +24V reference and stable +5V reference. *Id*.

#### Conclusion

This is a request for continued examination of applicant's earlier Application No. 09/975,995. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Walter F. Briney III whose telephone number is 571-272-7513. The examiner can normally be reached on M-F 8am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on 571-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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